## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10527,57/B

Source: 1606

## ENTERED

### CRF Errors Edited by the STIC Systems Branch

Serial	Number: 10/527,571B	CRF Edit Date: 8/28/06 Edited by:
	Realigned nucleic acid/amino acid numbers/text text "wrapped" to the next line	in cases where the sequence
	Corrected the SEQ ID NO. Sequence numbers ed	lited were:
	Inserted or corrected a nucleic number at the end NO's edited:	of a nucleic line. SEQ ID
_/	Deleted:invalid beginning/end-of-file text ;	page numbers
	Inserted mandatory headings/numeric identifiers	, specifically:
	Moved responses to same line as heading/numeric	identifier, specifically:
	Other:	

Revised 09/09/2003

[]



**IFWP** 

RAW SEQUENCE LISTING DATE: 09/06/2006
PATENT APPLICATION: US/10/527,571B TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

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3 <110> APPLICANT: Syngenta Participations AG
              Stam, Lynn
              Kamdar, Kim
              Spana, Eric
      6
              Bachmann, Jane
      9 <120> TITLE OF INVENTION: Nucleic Acid Sequences from Drosophila Melanogaster that
Encode Proteins
     10
             Essential for Viability and Uses Thereof
     12 <130> FILE REFERENCE: 70131WOPCT
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/527,571B
C--> 15 <141> CURRENT FILING DATE: 2005-03-14
     17 <150> PRIOR APPLICATION NUMBER: 60/422,377
     18 <151> PRIOR FILING DATE: 2002-10-29
     20 <160> NUMBER OF SEQ ID NOS: 381
     22 <170> SOFTWARE: PatentIn version 3.1
     24 <210> SEQ ID NO: 1
     25 <211> LENGTH: 27
     26 <212> TYPE: DNA
     27 <213> ORGANISM: artificial sequence
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     30 <221> NAME/KEY: misc feature
     31 <222> LOCATION: (1)..(27)
     32 <223> OTHER INFORMATION: primer Plac4
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     42 <213> ORGANISM: artificial sequence
     44 <220> FEATURE:
     45 <221> NAME/KEY: misc_feature
     46 <222> LOCATION: (1)..(24)
     47 <223> OTHER INFORMATION: Primer Plac1
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     51 cacccaaggc tctgctccca caat
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     55 <211> LENGTH: 23
     56 <212> TYPE: DNA
     57 <213> ORGANISM: artificial sequence
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     61 <222> LOCATION: (1)..(23)
     62 <223> OTHER INFORMATION: Primer Pry4
     64 <400> SEQUENCE: 3
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## RAW SEQUENCE LISTING DATE: 09/06/2006 PATENT APPLICATION: US/10/527,571B TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

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85 <212> TYPE: DNA	
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89 <221> NAME/KEY: misc_feature	
90 <222> LOCATION: (1)(28)	
91 <223> OTHER INFORMATION: Primer Pry2	
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95 cttgccgacg ggaccacctt atgttatt	28
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103 <220> FEATURE:	
104 <221> NAME/KEY: misc_feature	
105 <222> LOCATION: (1)(19)	
106 <223> OTHER INFORMATION: Primer Plw3-1	
109 <400> SEQUENCE: 6	
110 tgtcggcgtc atcaactcc	19
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114 <211> LENGTH: 29	
115 <212> TYPE: DNA	
116 <213> ORGANISM: artificial sequence	
118 <220> FEATURE:	
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121 <223> OTHER INFORMATION: Primer Pwht1	
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130 <212> TYPE: DNA	
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133 <220> FEATURE:	
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135 <222> LOCATION: (1)(25)	
136 <223> OTHER INFORMATION: Primer Splac2	

RAW SEQUENCE LISTING DATE: 09/06/2006
PATENT APPLICATION: US/10/527,571B TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

Output Set: N:\CRF4\09052006\J527571B.raw

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RAW SEQUENCE LISTING DATE: 09/06/2006
PATENT APPLICATION: US/10/527,571B TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

							(		(000		- (						
211	<22	3 > 0	THER	INF	ORMA'	TION	: Pr	imer	Spe	p1							
				NCE:					• .	•							
						С											19
	5 gacactcaga atactattc 8 <210> SEQ ID NO: 14																
	9 <211> LENGTH: 6342																
	0 <212> TYPE: DNA																
	1 <213> ORGANISM: Drosophila melanogaster																
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					(1)	(6:	342)										
								2848	3								
	6 <223> OTHER INFORMATION: CT28483 9 <400> SEQUENCE: 14																
					gat	aaa	tac	acq	tac	cag	caa	acc	at.t.	ata	tac	cta	48
					Asp												
232					5	-1-	-1-		- 7 -	10	9				15		
		cac	at.t.	cta	gcg	aac	atc	cag	ccc		CCC	taa	gat	aaσ	_	cat	96
					Ala												50
236		5		20		0_1		Ų	25				1101	30		****	
	atic	cac	cta		acc	cac	tcc	acc		cac	age	acc	age		cct	aac	144
					Thr												111
240			35				501	40	DCI		001	mu	45	110	110	Gry	
	aat	cga		ttc	gca	cta	acc		age	aac	aac	cat		aca	cac	ato	192
					Ala												, 12
244	11011	50	Dea	1110	711 U	шси	55	<u> </u>	JCI	Ory	Gry	60	пуз	1111	nsp	Mec	
	cat		cac	tica	999	aac		aat	aad	aca	ata		acc	cta	ttc	caa	240
			-		Gly				_	_		_		_			240
248		<b>0-</b> 1	9		017	70	017	017	_,	111 u	75	0111	****	LCu	1110	80	
		tat	aca	cag	gag		act	acc	gga	ata		tac	cta	gac	aca		288
					Glu												200
252	-1-	0,70		<b></b>	85				017	90		Cyb	<b></b>	1100	95	1129	
	acc	cag	gat	acc	gta	att	aca	cta	aac		tat	ttt	cta	gag		aac	336
					Val												
256				100					105		-1-			110	0-7	017	
	tac	caq	cac		ggc	cag	att	ata		tat	cta	cta	cat		acc	aag	384
					Gly												301
260	-7-	<b></b> -	115		<b>-</b> -1	·		120		-1-			125				
	tat	cta		aaσ	gcg	atc	taa		gac	gat	acc	caa		aac	aaa	ata	432
					Ala												132
	-7													11011	_,_	• • • •	
					att									tac	tta	220	480
					Ile												400
268		9	val	9	110	150	DCI	niu	OIU	цуз	155	SCI	FIIC	Cys	пец	160	
		cta	cta	tcc	gac		aca	acc	aacr	tat		gat	tca	cac	gag		528
					Asp												320
272			Lou	JUL	165	116	TIG	ALG	шyэ	170	FIU	чэh	SET	AL Y	175	JIU	
	ato	ato	cta	aat	cag	ata	us s	200	cta		000	ct~	~~~	224		ata	576
					Gln												5/6
276	110	116	Leu	180	9111	val	GIU	TIII	185	DET	лта	חבת	ALA	190	116	val	
	220	taa	200		asa.	200	200	+ ~ ~		000	~~~	000	a+ ~		at~	+~~	624
210	aay	ceg	age	ayy	gac	age	ayu	LUC	gca	ccg	ccg	CCC	acc	acc	cug	Lyc	624

RAW SEQUENCE LISTING DATE: 09/06/2006 PATENT APPLICATION: US/10/527,571B TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

279 280	Lys	Ser	Ser 195	Arg	Asp	Ser	Ser	Ser 200	Ala	Pro	Pro	Pro	Ile 205	Ile	Leu	Cys	
282	aaq	acc	acq	ata	cca	cta	ctc	ttc	aac	tta	aca	cga	t.ca	ata	aat.	cac	672
							Leu										٠,٠
	цуз		1111	vai	FIO	neu		FIIC	Gry	цец	мта	_	261	Mec	GIY	Arg	
284		210					215					220					
286	tat	gcc	agc	aac	gat	cca	ccg	ctg	ctg	tgc	cgc	att	ttt	ccg	CCC	gag	720
287	Tyr	Ala	Ser	Asn	Asp	Pro	Pro	Leu	Leu	Cys	Arg	Ile	Phe	Pro	Pro	Glu	
288	225		•			230				_	235					240	
290	cta	cta	CCC	atc	cad	aad	ggc	aac	aac	cac	gac	aac	acc	aac	tca	agg	768
																	,00
	neu	neu	PIO	116		пуѕ	Gly	GIY	GIA		Asp	GIA	1111	Gry		ser	
292					245					250					255		
							tgc										816
295	Ser	Ser	Ala	Ser	Gly	Thr	Cys	Gly	Gly	Ser	Phe	Ser	Ser	Ser	Glu	Arg	
296				260					265					270			
298	cta	aca	acc	acq	cat	cac	ttc	cga	ccc	atc	ata	cca	cac	t.cc	atg	ticc	864
							Phe										001
	шси	niu		1111	1113	1113	LIIC	_	110	116	116	FIO	_	Der	Mec	261	
300			275					280					285				
							cag										912
303	Gly	Ser	Leu	Ala	Gln	Ala	Gln	Asn	Ala	Ser	Tyr	Asp	Asp	Gly	Arg	Gln	
304		290					295					300					
306	cgg	tgc	gcg	ggc	ggc	aaq	CCC	aqc	aaq	cca	tcq	ttq	cac	aqc	tac	ttt	960
		_				_	Pro	_	_		_	_		_			
	305	-7.		0-1	0-1	310					315				-1-	320	
		~+~		+													1000
					_	_	cgg	_				_	_				1008
	Ser	vaı	Pro	ıyr	_	Pro	Arg	Thr	His		Pne	Thr	Arg	Tyr	-	Ser	
312					325					330					335		
314	agt	ttc	aac	caa	ttc	ccg	aac	atg	cgc	gtc	tgc	gaa	tcg	CCC	acg	aaa	1056
315	Ser	Phe	Asn	Gln	Phe	Pro	Asn	Met	Arg	Val	Cys	Glu	Ser	Pro	Thr	Lys	
316				340					345		_			350		-	
318	aac	aac	cca	cga	cca	cta	tat	cat	ata	cct	cca	+++	ccc		cad	cat	1104
							Tyr										1101
	Gry	Gry		rrg	FIO	цец	TYL	_	vai	PIO	PIO	FIIE		TIE	GIII	птэ	
320			355					360					365				
							gtg										1152
323	Leu	Gln	Thr	Ile	Phe	Ala	Val	Ser	Lys	Lys	Leu	Leu	Thr	Lys	Asp	Thr	
324		370					375					380					
326	ctc	gaa	cat	ctc	gac	qaq	cag	qca	aqc	qat	ata	ttt	tcq	ctq	cac	caa	1200
							Gln										
328						390					395					400	
-			~~~														1040
							aag	-	_	_			_		_	_	1248
	11e	Lys	GLY	Tyr	_	Tyr	Lys	Ser	Phe		GLu	Thr	Leu	Asn		Val	
332					405					410					415		
334	ctg	gtg	acc	ctg	ctc	agg	gaa	ctg	ctg	cag	cat	cag	gtt	gac	ctg	CCC	1296
							Glu										
336				420		_			425					430			
	aca	cca	ttc		aar	aat	gtg	cad		ttc	ata	227	cca	-	+++	ctc	1344
																	*744
	TIIL	FIO		TIIL	пур	Asp	Val		GIU	rne	val	пуѕ	_	neu	File	neu	
340			435					440					445				
							cag										1392
343	Asn	Gly	Gln	Thr	Glu	Leu	Gln	Asn	Lys	Gln	Gln	Asp	Gln	Glu	Arg	Glu	

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/06/2006 PATENT APPLICATION: US/10/527,571B TIME: 09:42:29

Input Set : N:\KEISHA\10527571b.txt

Output Set: N:\CRF4\09052006\J527571B.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:56; Xaa Pos. 415
Seq#:57; Xaa Pos. 415
Seq#:180; Xaa Pos. 551,572
Seq#:181; Xaa Pos. 551,572
Seq#:204; N Pos. 3000
Seq#:204; Xaa Pos. 1000
Seq#:205; Xaa Pos. 1000

#### Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/527,571B

DATE: 09/06/2006

TIME: 09:42:29

Input Set : N:\KEISHA\10527571b.txt
Output Set: N:\CRF4\09052006\J527571B.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:191 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:6917 M:280 W: Numeric Identifier already exists, Length not replaced.
L:7023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:1248
L:7195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:400
L:27070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:1680
M:341 Repeated in SeqNo=180
L:27247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:544
M:341 Repeated in SeqNo=181
L:33756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:2976
M:341 Repeated in SeqNo=204
L:34026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:992

L:50963 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:300, Line#:50960

# Raw Sequence Listing before editing (for reference only)



**IFWP** 

DATE: 08/28/2006 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/527,571B TIME: 10:18:03

Input Set : N:\RJAVED\10527571B.txt Output Set: N:\CRF4\08282006\J527571B.raw

3 <110 > APPLICANT: Syngenta Participations AG

- Stam, Lynn
- 5 Kamdar, Kim
- 6 Spana, Eric
- Bachmann, Jane
- 9 <120> TITLE OF INVENTION: Nucleic Acid Sequences from Drosophila Melanogaster that Encode Proteins
  - Essential for Viability and Uses Thereof 10
  - 12 <130> FILE REFERENCE: 70131WOPCT
- C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/527,571B
- C--> 15 <141> CURRENT FILING DATE: 2005-03-14
  - 17 <150> PRIOR APPLICATION NUMBER: 60/422,377
  - 18 <151> PRIOR FILING DATE: 2002-10-29
  - 20 <160> NUMBER OF SEQ ID NOS: 381
  - 22 <170> SOFTWARE: PatentIn version 3.1

Dres Not Comply

Corrected Diskette Needed

#### ERRORED SEQUENCES

50813 <210> SEQ ID NO: 299

50814 <211> LENGTH: 522

50815 <212> TYPE: PRT

50816 <213> ORGANISM: Drosophila melanogaster

50818 <400> SEQUENCE: 299

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50824 Asp Leu Val Arg Gln Leu Lys Ala Ala Lys Glu Ser Lys Glu Lys Ile

50825 25

50828 Asp Glu Glu Val Ala Arg Leu Leu Ala Leu Lys Ala Thr Leu Gly Gly

. 35

50832 Asp Ala Ala Pro Thr Asn Gln Lys Phe Thr Leu Lys Thr Pro Lys Gly

50836 Thr Arg Asp Tyr Gly Pro Gln Gln Met Thr Leu Arg Gln Gly Val Leu

50837 65 70

50840 Asp Lys Ile Val Gln Val Phe Lys Arg His Gly Glu Ala Ile Asp

85

50844 Thr Pro Val Phe Glu Leu Lys Glu Val Leu Thr Gly Lys Tyr Gly Glu 50845 100

105

50848 Asp Ser Lys Leu Ile Tyr Asp Leu Lys Asp Gln Gly Glu Ile Leu

120 125

50852 Ser Met Arg Tyr Asp Leu Thr Val Pro Leu Ala Arg Tyr Leu Ala Met

50856 Asn Lys Ile Ser Ser Ile Lys Arg Tyr His Ile Ala Lys Val Tyr Arg

50857 145 150 155 160 RAW SEQUENCE LISTING DATE: 08/28/2006
PATENT APPLICATION: US/10/527,571B TIME: 10:18:06

Input Set : N:\RJAVED\10527571B.txt
Output Set: N:\CRF4\08282006\J527571B.raw

50860 Arg Asp Asn Pro Ala Met Thr Lys Gly Arg Tyr Arg Glu Phe Tyr Gln 165 170 50864 Cys Asp Phe Asp Ile Ala Gly Thr Tyr Asp Pro Met Leu Pro Asp Ala 180 185 50868 Glu Cys Val Lys Ile Val Ser Glu Ile Leu Asp Thr Leu Asp Ile Gly 50869 195 200 50872 Asp Tyr Val Ile Lys Leu Asn His Arg Gln Leu Leu Asp Gly Met Phe 215 220 210 50876 Gln Ala Cys Gly Val Pro Ala Asp Ser Phe Arg Thr Ile Cys Ser Ala 50877 225 230 50880 Val Asp Lys Leu Asp Lys Ser Pro Trp Ala Asp Val Arg Lys Glu Met 250 245 50884 Val Asp Glu Lys Gly Leu Asp Glu Ala Ala Asp Arg Ile Gly Glu 260 265 50888 Tyr Val Arg Leu Ser Gly Gly Ala Glu Leu Val Glu Gln Leu Leu Ala 275 280 50892 Asn Glu Lys Leu Lys Ala Val Pro Asn Ala Val Lys Gly Leu Glu Gly 295 50893 290 50896 Met Lys Gln Leu Leu Lys Tyr Cys Ser Ile Phe Gly Leu Asp Lys Arg 50897 305 310 315 50900 Val Ser Phe Asp Leu Ser Leu Ala Arg Gly Leu Asp Tyr Tyr Thr Gly 325 330 50904 Val Ile Tyr Glu Gly Val Leu Lys Gly Glu Ser Ala Thr Val Ala Ser 340 345 50908 Pro Ala Lys Thr Ser Gln Gln Asn Gly Glu Gln Ala Asn Glu Pro Ala 355 360 50912 Thr Val Gly Ser Val Ala Gly Gly Gly Arg Tyr Asp Asn Leu Val Gly 375 50916 Met Phe Asp Pro Arg Gly Lys Ala Val Pro Cys Val Gly Val Ser Ile 50917 385 390 395 50920 Gly Val Glu Arg Ile Phe Ser Val Leu Glu Ala Arg Ala Ala Ser 405 410 50924 Gly Leu Lys Leu Arg Thr Ser Asp Val Glu Val Tyr Val Ala Ser Ala 50925 420 425 430 50928 His Lys Gly Leu His Glu Gln Arg Leu Lys Val Leu Asn Leu Leu Trp 440 50932 Asp Ala Gly Val Lys Ala Glu His Ser Tyr Lys Leu Asn Pro Lys Leu 450 455 460 50936 Leu Val Gln Leu Gln His Cys Glu Glu His Gln Ile Pro Leu Val Val 50937 465 470 50940 Val Leu Gly Asp Ala Glu Leu Ala Gln Gly Leu Val Lys Leu Arg Glu 490 485 50944 Val\_Thr Thr Arg Glu Glu Thr Asn Val Lys Leu Glu Asp Leu Ala Ala 50945 500 E--> 50948 CT19850Glu Ile Arg Arg Gln Gln Ala Ser Ala E--> 50949 525 (1) 820 520

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/28/2006 PATENT APPLICATION: US/10/527,571B TIME: 10:18:08

Input Set : N:\RJAVED\10527571B.txt

Output Set: N:\CRF4\08282006\J527571B.raw

#### Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

VERIFICATION SUMMARY DATE: 08/28/2006
PATENT APPLICATION: US/10/527,571B TIME: 10:18:08

Input Set : N:\RJAVED\10527571B.txt
Output Set: N:\CRF4\08282006\J527571B.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:191 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12 L:6917 M:280 W: Numeric Identifier already exists, Length not replaced. L:7023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:1248 L:7195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:400 L:27070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:1680 M:341 Repeated in SeqNo=180 L:27247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:544 M:341 Repeated in SeqNo=181 L:33756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:2976 M:341 Repeated in SeqNo=204 L:34026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:992 L:50948 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:50948 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1 L:50949 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:299 L:50963 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:300, Line#:50960